



ADVISORY CIRCULAR 43–16A

AVIATION MAINTENANCE ALERTS





AUGUST 2000

ALERT NO. 265

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, DC 20590

AVIATION MAINTENANCE ALERTS

The Aviation Maintenance Alerts provide a common communication channel through which the aviation community can economically interchange service experience and thereby cooperate in the improvement of aeronautical product durability, reliability, and safety. This publication is prepared from information submitted by those who operate and maintain civil aeronautical products. The contents include items that have been reported as significant, but which have not been evaluated fully by the time the material went to press. As additional facts such as cause and corrective action are identified, the data will be published in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported via Malfunction or Defect Reports. Your comments and suggestions for improvement are always welcome. Send to: FAA; ATTN: Designee Standardization Branch (AFS-640); P.O. Box 25082; Oklahoma City, OK 73125-5029.

AIRPLANES

AERO COMMANDER

Aero Commander; Model 112; Flex Hose Failure; ATA 7310

During an annual inspection, the inspector checked all the flexible hoses in the engine compartment. Most of the hoses were less than 5 years old; however, two of the hoses (P/N's LW13181-6-12 and LW13175-4-343) were 25 years old and were probably installed as original equipment.

These two hoses were attached to the Bendix fuel injector pump, and their failure may result in complete engine failure. The submitter stated it is important to obtain replacement hoses from the same source as the originally-installed hoses (engine or airframe manufacturer).

Part total time-2,500 hours.

BEECH

Beech; Model BE-18-C45H; Landing Gear Failure; ATA 3230

After takeoff, the pilot discovered the landing gear would not fully retract, and the landing gear motor circuit breaker opened. The pilot reset the circuit breaker, extended the gear, and made a safe landing.

While investigating, a maintenance technician discovered the left main gear doors (P/N's 713-2 and 714-2) closed before the gear was fully up. The doors obstructed the retraction cycle, stopped the landing gear, and caused the circuit breaker to open. Evidently, improper rigging caused the gear doors to close prematurely. After replacing various bent, broken, damaged, and missing parts, the technician rigged and lubricated the landing gear system and conducted an operational test which was satisfactory.

Part total time-24,914 hours.

Beech; Model V35B; Bonanza; Defective Engine Exhaust System Muffler; ATA 7800

While inspecting the engine, the technician discovered several bulges on the left muffler.

The technician removed the muffler (P/N 701-20) and heat shield and found several large holes in the muffler. The holes were not visible until the heat shield was removed. The submitter could not determine a cause for this defect; however, he suggested maintenance personnel remove the muffler heat shield during each scheduled inspection to check for bulges and/or holes in the muffler.

Part total time not reported.

Beech; Model A-36; Bonanza; Defective Navigation Light System; ATA 3340

The pilot reported the navigation lights inoperative and requested maintenance action.

After finding the navigation light system circuit breaker open, the technician investigated further. He found the wiring in the left wing was not properly secured and was chafed through the insulation where it passed through a wing rib. This caused the circuit breaker to open the circuit and disable the navigation lights. Since there was no sign of wire clamps ever being used, the submitter believes this condition originated when the aircraft was assembled.

Part total time-2,980 hours.

Beech; Model 58; Baron; Defective Wing Attachment; ATA 5740

During an annual inspection, the technician discovered a previous repair that was not airworthy.

The repair was accomplished after a gear-up landing in 1980, and the aircraft had gone through 19 annual inspections since that time. The repair was located in the area of the left wing upper spar just outboard of the wing attachment fitting. Many of the rivets used in the repair had no "shop head," and the rivet heads were not seated against the structure. The submitter suggested all maintenance personnel conduct a thorough investigation of previous repairs during scheduled inspections.

The aircraft owner chose not to have the necessary repairs made and flew the aircraft to his home base on a "ferry permit." The technician properly initiated a maintenance record entry for the annual inspection and his findings that the aircraft was not airworthy. Also, he presented the owner with a detailed list of the items that were not airworthy.

It does seem amazing that the defective repair could have slipped past 19 previous annual inspections.

Part total time not reported.

Beech; Model B95; Travel Air; Defective Cabin Heater; ATA 2140

During an annual inspection, the inspector discovered a defective cabin heater.

The heater combustion head assembly (Janitrol P/N 51A45) had a hole approximately 1 inch in diameter in the end of the canister fitting. (Refer to the following illustration.) The area surrounding the hole, as well as the entire unit, was severely corroded. The submitter believes this unit had been in service since 1960 (the aircraft manufacture date).

The heater manufacturer's technical data contains required regular scheduled inspection and maintenance procedures for the Model 83A28 heater. The submitter stated maintenance technicians do not always follow these procedures and recommended the FAA issue an Airworthiness Directive with recurring inspection requirements to address this subject.

Part total time not reported.



Beech; Model 99A; Airliner; Fuel Leak; ATA 2810

After the flightcrew reported a fuel leak, a maintenance technician discovered the right nacelle fuel tank was the leak source.

An inspection revealed the bladder fuel cell (P/N 99-380000-7) was punctured on one side. It was evident that a tank hanger had become dislodged and wedged between the tank liner and the cell sidewall.

The submitter cautioned maintenance personnel to exercise extreme care to verify proper seating of the fuel cell hangers. The fuel cell markings indicated it was manufactured in 1979, and it still appeared to be in good condition.

Part total time-33,344 hours.

Beech; Model 99; Airliner; Aileron Skin Crack; ATA 2710

During a preflight inspection, the pilot noticed a crack in the left aileron skin.

The crack was located at the inboard, trailing edge of the top skin near the aileron (P/N 99-130000-605) trim tab. A technician discovered the crack area displayed extensive and severe corrosion concentrated along the aileron trailing edge.

The submitter suggested that technicians be especially vigilant for evidence of corrosion when inspecting "older" aircraft.

Part total time not reported.

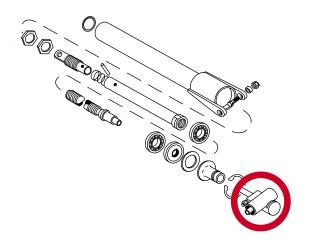
Beech; Model 99; Airliner; Defective Wing Flap Actuator; ATA 2750

After replacing the wing flap actuators, the technician conducted an operational test.

During the test, the left inboard wing flap bound up, and the drive motor failed. The technician removed the flap actuator drive (P/N 50-380153-1) and determined the drive assembly was attempting to move the flap opposite the selected direction. (Refer to the

following illustration.) This aircraft uses four different wing flap actuators, and the left inboard actuator (P/N 50-521222-3) was defective. The actuator was a newly-overhauled unit, and the drive unit, which has a 10,000-cycle life limit, was incorrectly manufactured. It might be wise to perform a bench test of these units to check for proper operation prior to installation.

Part total time since overhaul-0 hours.



Beech; Model B100; King Air; Cabin Door Defect; ATA 5210

When a crewmember opened the cabin door to gain access to the aircraft, the door structure failed.

An aluminum channel (P/N 50-430043-619), which forms the bottom of the doorframe at the point where the hinge is attached, broke. While examining this area, the technician discovered severe corrosion on the channel, as well as, inside the door structure. Evidently, the door is a sealed structure and no drain hole is provided to prevent the accumulation of condensation or leakage.

Part total time-11,278 hours.

Beech; Model 200; King Air; Landing Gear Failure; ATA 3230

During a landing approach, the pilot selected the landing gear to the "down" position with no response. He made a safe landing after he lowered the gear using the emergency system.

While troubleshooting the system, the technician discovered the screws, used to attach the "gear-down" relay in the landing gear control box, were loose. The loose screws prevented proper operation of the gear-down cycle. Other than improper installation, there was no reason given for the relay attachment screws becoming loose.

The technician properly secured the relay attachment screws, and a landing gear operational test proved satisfactory.

Part time since overhaul-2,082 hours.

CESSNA

Cessna; Model 152; Aerobat; Defective Fuel Tank Security; ATA 2810

While investigating the source of a fuel leak, the technician removed the right wing fuel tank.

During the removal process, the technician found the aft outboard strap assembly (P/N 0523522-1) broken. The aluminum strap broke at the location of the screw hole, and the metal grain ran parallel to the fracture surface and the bend. He speculated the strap assembly would not have broken if the metal grain had been properly oriented perpendicular to the direction of applied stress.

The technician also discovered the source of the fuel leak was a crack in the fuel tank adjacent to the broken strap at the aft bottom fuel outlet fitting. The fuel tank crack was previously repaired by welding. He speculated the broken strap caused a repeat of the previous crack.

Part total time not reported.

Cessna; Model 152; Aerobat; Cockpit Oil Leak; ATA 3120

While performing maintenance, the technician discovered engine oil on the copilot's inboard rudder pedal.

The technician found the oil seeping from the crimped housing of the hour-meter pressure switch (P/N S1711-1). Evidently, the housing was not properly crimped during manufacture or was damaged later.

Cockpit fluid leaks, of any type, create a very hazardous situation, and all potential leak sources should be checked closely at every opportunity.

Part total time-2.158 hours.

Cessna; Model 172RG; Cardinal; Defective Nose Landing Gear Actuator Attachment; ATA 3233

During a scheduled inspection, a repair station technician discovered the nose landing gear retraction actuator attachment fitting cracked.

The fitting (P/N 2413002-3) was cracked from the lower left inner bolt hole to the outer edge of the fitting. The crack was approximately 1 inch long, and the fitting was in danger of imminent failure. All of the lower attachment bolts were loose, and the submitter believes the loose bolts caused the crack. It was recommended that the fitting bolt torque be checked during each 100-hour or annual inspection.

Part total time-11,971 hours.

Cessna; Model 177RG; Cardinal; Flight Control Balance; ATA 2731

While replacing the stabilator bearings, the inspector discovered cracks in the stabilator balance weight attachments.

Three of the four balance weight support brackets (P/N's 1732010-2, 1732031-1, and 1732031-2) were cracked in the bend radius. The length of the cracks was measured at

1.25 inches, 1.5 inches, and 1.75 inches. The stabilator was removed for replacement of the bearings, which made discovery of this defect much easier.

The submitter recommended that all operators conduct thorough and frequent inspections of the balance weight support brackets.

Part total time-5,000 hours.

Cessna; Model 182S; Skylane; Elevator Trim System Defect; ATA 2731

While checking for proper elevator trim system operation after complying with Service Bulletin (SB) 00-22-01A on the autopilot (KAP-104) servo, the technician discovered the trim would not attain full travel.

While investigating, the technician found the elevator servo trim cable swaged ball outside the servo drum. The autopilot cable was not centered in reference to the elevator trim neutral position. After rigging the trim system in accordance with the manufacturer's technical data, the trim system functioned properly. If this problem exists, it may not be evident until the elevator trim is run to its limit, allowing the swaged ball to come off the servo drum.

The submitter stated, "It was obvious that the elevator trim system was not properly rigged prior to delivery from the manufacturer." He cautioned others to conduct a thorough "receiving inspection," even on new aircraft.

Part total time-105 hours.

Cessna; Model 340A; Broken Propeller Deicer Clamp; ATA 6112

The pilot reported hearing an abnormal sound when he selected the landing gear to the "down" position prior to landing.

A maintenance technician conducted a thorough inspection and test of the landing gear system and found no problem. Investigating further, he discovered the left engine propeller number 3 blade deicer wire harness clamp (P/N MS21919-WCF6) broken.

He speculated the clamp broke and hit the left side of the fuselage when it separated from the aircraft causing the abnormal sound.

Part total time not reported.

Cessna; Model 414A; Chancellor; Wing Attachment Corrosion; ATA 5740

While conducting an annual inspection, the technician discovered severe corrosion on the left wing attachment fittings.

Each of the left wing attachment fittings (P/N's 5011023-1 and 5011024-1) was corroded in an area approximately 1.5 square inches and a depth of .125 inch. In this case, the damage required replacement of both fittings.

There was no obvious cause for this corrosion, although there are several unconfirmed possibilities. These possibilities include impurities or inclusions deposited inside the metal, inadequate metal preparation (heat treatment, surface treatments, etc.), contact with corrosive agents, and others. The submitter recommended inspecting this critical area at every opportunity.

Part total time-6,667 hours.

Cessna; Model 421C; Golden Eagle; Hydraulic System Failure; ATA 2910

During cruise flight, the pilot noticed the hydraulic system annunciator light began to flicker. Approximately 2 minutes later, the hydraulic system failed completely. The pilot immediately lowered the landing gear and made a safe landing.

A maintenance technician investigated the problem and discovered a ruptured right main landing gear actuator pressure hose. The hose failure caused complete depletion of the hydraulic system fluid.

The submitter gave no further details concerning the cause of this defect.

Part total time not reported.

Cessna; Model 550; Citation; Landing Gear Anomaly; ATA 3230

As part of a scheduled inspection, repair station personnel performed a landing gear operational test. During the test, the left main gear did not operate properly.

During the extension cycle, the left main gear "free-fell" to the "down" position. The right main and nose landing gear extended properly and locked in the "down" position. The technician investigated and found hydraulic pressure on the uplock cylinder, but no pressure was supplied to the "down" side of the actuator. While troubleshooting, he removed the clevis pin from the linkage connecting the uplock actuator to the uplock hook and found the actuator extended normally.

The technician solved this problem after reviewing the maintenance records, talking with the customer, and discussing the situation with the manufacturer. The customer, prior to the current inspection, replaced the uplock hook (P/N 5541103-13). An examination revealed the uplock hook was contacting the radius of a support bracket. The contact was evidenced by a gouge mark in the support bracket. The manufacturer inspected the parts and concluded that a "radius cut" was eliminated when the uplock hook was manufactured.

The manufacturer's technical data does not require a landing gear operational test after replacement of the uplock hook. However, the submitter suggested maintenance personnel conduct an operational test after replacement of the uplock hook to prevent this type of occurrence.

Part total time not reported.

Cessna; Model 560; Citation; Aileron Balance Weight Security; ATA 5751

The flightcrew reported erratic aileron control during flight.

A maintenance technician discovered the left aileron balance weights loose and bouncing around in the inboard end cap. The weights came off, or pulled through, the small washer and nut that secures them to the structure. He found some corrosion in the area; however, he does not believe the corrosion caused this defect.

The submitter recommended the manufacturer design and make available a cover plate for the aileron and elevator balance weights, similar to that on other Cessna Citation models.

Part total time-2,361 hours.

MAULE

Maule; Model MX 7-180; Star Rocket; Engine Exhaust Failure; ATA 7820

The pilot reported an abnormal odor in the cockpit. During the next takeoff, he heard a loud rattling sound and aborted the takeoff.

After parking the aircraft, the pilot found the right outer muffler shroud loose. After removing the shroud, he discovered the muffler severely ruptured. (Refer to the following illustration.) The submitter stated this failure motivated him to begin inspecting the entire engine exhaust system at 50-hour intervals.

Part total time-223 hours.



MOONEY

Mooney; Model M20J; Defective Ignition Switch; ATA 7430

The pilot reported the engine ignition switch operated intermittently. It was necessary to engage the switch several times to get the engine started, and the problem became progressively worse.

When a maintenance technician replaced the ignition switch (P/N 97-2273-1) during an annual inspection, he discovered it was the "new-type" switch. The submitter stated the switch had a low number of operating hours; therefore, the reliability of the switch is suspect. Also, this presents the inherent danger of grounding one or both magnetos due to ignition switch failure. The submitter recommended the manufacturer evaluate the reliability of this switch.

Part total time-428 hours.

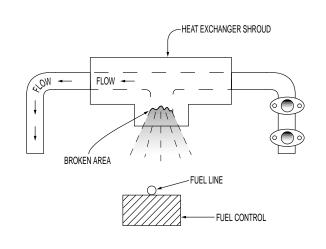
PIPER

Piper; Model PA 23-250; Aztec; Engine Exhaust System Failure; ATA 7800

After a flight, the pilot reported excessive and abnormal engine noise and the presence of exhaust fumes in the cockpit.

While investigating, the technician discovered a broken left inboard engine exhaust header. (Refer to the following illustration.) The exhaust header failed under the heat exchanger shroud adjacent to the crossover pipe. This failure directed hot exhaust system gases at the fuel control and associated fuel plumbing which created a hazardous condition.

Part total time-2,000 hours.



Piper; Model PA 28-160; Cherokee; Structural Wing Damage; ATA 5711

During an annual inspection, the inspector discovered severe corrosion inside the left wing.

The forward edge of the aft main wing spar, located behind the fuel tank, suffered corrosion exfoliation, which consumed approximately 50 percent of the spar thickness. This damage was attributed to the presence of a large nest and fecal matter deposited by the rodent residents. (Refer to the following illustration.)

The damage inflicted by rodents and other "creatures" was well documented in the past by this and many other publications. Once again, we remind readers to be aware of the severe and possible catastrophic damage these uninvited guests may impose. The submitter recommended conducting a thorough inspection of this area at every opportunity. Also, it is wise to take all appropriate precautions to exclude the entry of "creatures" into any part of our aircraft.

Part total time not reported.



Piper; Model PA 28RT-201; Arrow; Nose Landing Gear Trunnion Failure; ATA 3222

During an annual inspection, the technician turned the nose landing gear using a tow bar. When the nose gear reached the stop, a piece of the trunnion broke and fell to the floor.

While investigating, the technician found the trunnion (P/N 67054-03) was cracked in three locations. (Refer to the following illustration.) These areas displayed evidence of discontinuity in the interior structure of the metal. Another area had metal porosity at the surface. According to the aircraft maintenance records, the nose gear trunnion was installed as original equipment when the aircraft was manufactured.

Part total time-6,984 hours.



Piper; Model PA 31P; Navajo; Alternator Failure; ATA 2410

The pilot reported the aircraft's left engine alternator failed during flight. He made a safe landing and summoned maintenance personnel.

During an inspection, the technician found the left side of the aircraft covered with engine oil. When he opened the engine cowling, the alternator was loose and was contained by the cowling and attached wiring.

The submitter speculated the alternator adapter assembly bushing (P/N 75539) failed and caused the drive shaft to be misaligned which resulted in failure of the coupling (P/N LW-14464). He did not give a reason for the bushing failure.

Part total time not reported.

Piper; Model PA 31-350; Chieftain; Main Landing Gear Defect; ATA 3230

During a scheduled inspection, the technician discovered a crack in the left main landing gear retraction arm.

The retraction arm (P/N 42042-00) connects the hydraulic actuator to the forward side brace for extension and retraction of the landing gear. The technician found the crack by observing the retraction arm during transition of the gear. In this case, the crack was small; however, with continued operation, the crack would have progressed to the point of failure. The weight of the landing gear and the airspeed during gear movement are factors which directly affect the stress applied to the retraction arm.

This is a "high-time" aircraft, and it is the submitter's opinion that metal fatigue during many landing gear cycles caused this defect.

Part total time-15,290 hours.

Piper; Model PA 32-300; Cherokee Six; Wing Skin Cracks; ATA 5730

During a scheduled inspection, the inspector discovered numerous cracks on the left wing skin.

The cracks were located at the inboard (root area) and outboard edges of the upper skin panel (P/N 62087-00) at each end of the stringers. Also, one of the stringers was cracked. When the skin panel was removed, the technician noticed it did not have reinforcement doublers which are normally installed at the inboard and outboard ends of the skin panel where it attaches to the stringers. When he received a new replacement skin panel, the reinforcement doublers were installed as part of the assembly.

The submitter speculated the cracks occurred because the doublers were not originally installed. He recommended that all operators of Piper aircraft with like wing design conduct an inspection to determine if the reinforcement doublers are installed.

Part total time-3,372 hours.

Piper; Model PA 34-200; Seneca; Nose Steering Defect; ATA 3250

While changing tires, the technician noticed excessive play in the nose steering linkage.

The technician investigated further finding the nose steering stops were damaged, and the nose gear centering spring (P/N 96522-00) was broken. The centering spring travel is normally greater than the steering stops. He suspected the damage was caused when the turn limits were exceeded during ground movement (towing). When the steering travel exceeds the stops, the centering spring, and possibly other components, will fail. Training and attention to detail during towing operations may prevent this type of defect.

Part total time-5,163 hours.

Piper; Model PA 42-720; Cheyenne III; Electrical System Failure; ATA 2440

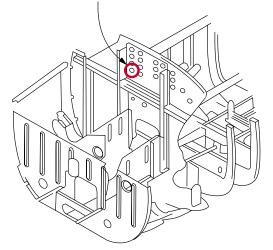
Approximately 45 minutes into a training flight, the crew suddenly detected a burning odor. This was followed by the opening (popping) of numerous circuit breakers, and the windshield wipers began operating even though the switch was in the "off" position. The pilots followed emergency procedures and made a safe landing. After taxiing to the parking ramp, the crew found they could not turn off battery power and had to remove the cables from the battery.

During an investigation, the technician found the source of the burning odor in the left nose access panel. After removing all of the avionics equipment from the top shelf, the technician discovered an electrical connector (E433) severely heat damaged. This is a three-part connector (P/N 556-416) consisting of a forward plug (P/N 206370-1), a feed-through (P/N 207201-1), and an aft plug (P/N 206369-1). (Refer to the following illustration for the connector location.) The connector contains 37 pins, 30 of which were damaged and shorted when the plastic connector assembly melted. Various aircraft components were either damaged or rendered inoperative by this electrical failure.

It is the submitter's opinion this damage was caused by exposure of the connector to constant cycling of pressurization and temperature during operation. In addition, vibration and other environmental factors over the 20-year life of this part were very likely causal factors. The location of the connector assembly makes it very difficult to properly inspect. However, it was suggested that all operators of like aircraft ensure this area is checked closely during scheduled inspections.

Part total time-5,755 hours

LOCATION OF ELECTRICAL CONNECTOR E433



Piper; Model PA 44-180T; Turbo Seminole; Poor Engine Operation; ATA 7300

The pilot reported that during flight, the left engine began running rough and emitting smoke from the exhaust. The pilot made a safe landing and delivered the aircraft to the maintenance shop.

The maintenance technician found the electrical fuel primer for the left engine was active when the master switch was in the "on" position. While checking further, he found the "push-to-prime" switch (P/N 37756-003), located on the instrument panel, failed internally. The switch shorted internally causing electrical power to be applied to the primer when the master switch supplied input power. After changing the switch, the systems functioned properly, and engine performance returned to normal.

Part total time 1,350 hours.

Piper; Model PA 46-350P; Malibu Mirage; Flight Control Stiffness; ATA 2710

After a flight, the pilot reported stiffness or binding in the aileron control system movement. The stiffness seemed to get progressively worse as the flight continued. While troubleshooting this problem, the technician could not find the cause for the stiffness. The linkage, cable routing, and tension were correct. He lubricated the entire flight control system and solved the stiffness problem.

It is the submitter's opinion that the manufacturer did not lubricate the flight control system prior to delivery of the aircraft.

Part total time-18 hours.

TWIN COMMANDER

Twin Commander; Model 690B; Aileron Hinge Cracks; ATA 5751

During a scheduled inspection, the technician found cracks on both ailerons.

The cracks were located in the inboard aileron hinge "U-channel" webs around the lower attachment bolt. The submitter did not offer a cause for this defect. However, he recommended the manufacturer design and issue a doubler to reinforce this area.

Part total time-4,616 hours.

HELICOPTERS

UNAPPROVED PARTS NOTIFICATION NUMBER 99-179, July 17, 2000

AFFECTED AIRCRAFT: Bell Helicopter 206L-1, 206L-3, 206L-4

PURPOSE

The purpose of this notification is to advise all aircraft owners, operators, maintenance entities, suppliers, and distributors of improperly overhauled transmission assembly components for the above-referenced aircraft.

BACKGROUND

On September 20, 1995, a Bell 206L-1, registration number N2777W, was involved in

a blade-strike accident causing substantial damage to the aircraft that included torsional yielding of the main rotor mast. Quality Aircraft, Inc. (Quality), an aircraft parts distributor located at 1161 Cedar Dr., Midlothian, TX 76065, subsequently purchased the damaged aircraft. Quality utilized Galactic NDT Services, Inc., to perform magnetic-particle and liquid-penetrant inspections on the transmission parts. Galactic was not informed that the transmission had been involved in an accident, and therefore did not conduct additional hidden-damage inspections. The Bell Helicopter Maintenance Manual, BHT-206L1-MM-1, states: "CAUTION: If the main rotor mast has evidence of torsional yielding, the mast assembly, transmission assembly, main driveshaft, and freewheeling assembly shall be considered unserviceable and scrapped." The parts listed below may have been contained in

Part Name	Part Number	Serial Number
Link Attachments	206-033-513-001	B12-2520, B12-2567,
		B12-2658, and B12-2715
Stop - R/H	206-033-542-001	N/A
Stop - L /H	206-033-542-003	7925-3
Gear - Pinion	206-040-020-009	B12-7420
Gear - Spiral	206-040-025-001	B12-6138
Nut	206-040-046-003	N/A
Nut	206-040-047-001	N/A
Housing	206-040-052-009	B12-5194
Tube	206-040-064-001	N/A
Ring Spacer	206-040-068-001	N/A
Housing - Bearing	206-040-091-003	B12-8180
Gear - Ring	206-040-124-003	B12-11499
Housing	206-040-129-001	N/A
Filter - Head	206-040-525-001	B12-927
Dowel	206-040-528-001	N/A
Case - Main	206-040-530-001	B12-283
Case	206-040-531-001	B12-880
Case Top	206-040-532-005	B12-793A
Support - Lower	206-040-533-001	B12-763
Nut	206-040-539-009	N/A
Gear - Shaft	206-040-540-003	B12-1091
Gear - Sun	206-040-562-103	B-3307

the accident aircraft transmission assembly.

RECOMMENDATION

Regulations require that type-certificated products conform to their type design. Aircraft owners, operators, maintenance organizations, suppliers, and distributors should inspect their aircraft, aircraft records, and/or aircraft parts inventories for any of the above-referenced parts originating from Quality Aircraft, Inc. If any of the parts are installed, appropriate action should be taken.

If any of the parts identified in the previous list are found in existing stock, it is recommended that the parts be quarantined until a determination can be made regarding each part's eligibility for installation.

FURTHER INFORMATION

Additional information may be obtained from the FAA Flight Standards District Office (FSDO) shown below. The FAA would appreciate any information concerning the discovery of the above-referenced unapproved parts from any source, the means to identify the source, and the action taken to remove the parts from service.

This notice originated from the Dallas FSDO, 3300 Love Field Drive, Dallas, TX 75235, telephone (214) 902-1827, fax (214) 902-1862, and was published through the FAA Suspected Unapproved Parts Program Office, AVR-20, telephone (703) 661-0581, fax (703) 661-0113.

BELL

Bell; Model 206BIII; Jet Ranger; Airspeed Indication Anomaly; ATA 3414

After a flight, the pilot reported the airspeed indication appeared to be low while operating in a cruise-flight configuration.

When the maintenance technician investigated, he found the pitot static line (P/N 206-070-895-033) was punctured. The line chafed against the landing light until it penetrated the wall thickness. Evidently, the line was not properly routed and/or secured when it was previously installed.

Part total time not reported.

ENSTROM

Enstrom; Models All; Alternator Installation Error; ATA 2410

A submitter reported finding three cases of damage caused by separation of the alternator fan blades.

New alternators are fitted with a fan assembly. The manufacturer's technical data requires removing the fan assembly and replacing the fan assembly with a spacer prior to installation. In one case, when the alternator fan blade assembly separated, it punctured the engine oil cooler resulting in loss of engine oil and an off-airport landing.

The submitter stated he finds many alternator fan assemblies installed during inspections and maintenance. Each time, it is necessary to correct the installation by removing the fan assembly. It was suggested the manufacturer issue service information to its customers advising them of this problem. Further, the submitter recommended the FAA issue an Airworthiness Directive concerning this subject which would correct this dangerous situation. All maintenance personnel should be aware of this information and exercise due diligence during alternator installations.

Part total time not reported.

EUROCOPTER

Eurocopter; Model AS 350B1; Ecureuil; Engine Control Failure; ATA 7603

During an engine starting sequence, the pilot attempted to shut down the engine due to a "slow start." The engine continued to run, and he used the emergency shutoff system to secure the engine.

While investigating the cause of this defect, a technician discovered the end of the power lever control (P/N 350A57-1053-00) came off where it attaches to the fuel control. Even though the safety pin was in place, the technician found that the control end would come off of the ball joint (P/N 961) when the

release was pressed. The submitter recommended the inspection criteria for these parts be included in the appropriate maintenance workcards and procedures.

Part total time not reported.

Eurocopter; Model AS-350BA; Ecureuil; Abnormal Airframe Vibration; ATA 6500

During a flight, the pilot noticed an unusual airframe vibration. After a safe landing, the pilot reported the problem to the maintenance department.

The technician conducted an investigation and determined that failure of the tail rotor spherical bearing (P/N 350A-332153-00) caused the abnormal vibration. The bearing "elastimers" were severely torn. The submitter reported another occurrence of this defect in which the "elastimers" completely wore through their thickness. This failure occurred after 138 hours of operation.

Part total time-611 hours.

SIKORSKY

Sikorsky; Model S-76B; Blade Crack; ATA 6210

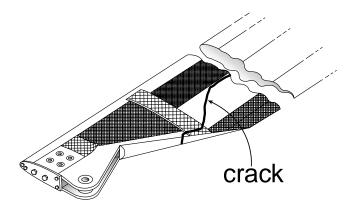
During a postflight inspection, the maintenance technician found a large crack in a main rotor blade.

The crack began 20 inches outboard from the blade root on the trailing edge of the blade (P/N 76150-09100-052), extended 5 inches lengthwise, and then traveled diagonally to a point just behind the spar. From there, the crack traveled another 12 inches lengthwise before terminating. (Refer to the following illustration.) The total crack length was approximately 24 inches. The FAA issued an Emergency Airworthiness Directive (AD) (2000-11-52), dated May 26, 2000, which requires inspection of the main rotor blades. In addition, the manufacturer issued Alert Service Bulletin 76-65-50, dated May 25, 2000,

and compliance is required by AD 2000-11-52. All operators should be aware of, and comply with, the requirements of these documents.

At the time of this report, the cause of this defect had not been determined. If further information is received, it will be printed in a future edition of this publication.

Part total time-3,615 hours.



POWERPLANTS AND PROPELLERS

UNAPPROVED PARTS NOTIFICATION NUMBER 2000-00107, July 1, 2000

AFFECTED ENGINES: General Aviation Aircraft – Continental and Lycoming reciprocating engines.

PURPOSE

The purpose of this notification is to advise all aircraft owners, operators, maintenance entities, and parts suppliers and distributors regarding improper maintenance or overhaul performed on the above-referenced engines between May 23, 1997, and January 25, 2000, by Colonial Aviation, 8640 Airway Blvd., New Port Richey, FL 34654-5106, or returned

to service under Mechanic Certificate (Airframe and Powerplant Ratings) No. 043341932.

BACKGROUND

Information received during a Federal Aviation Administration (FAA) suspected unapproved parts investigation indicated that Colonial Aviation overhauled a Lycoming engine without using the current maintenance manual, instructions for continued airworthiness, or other acceptable data. Evidence also indicates that the engine overhaul was performed without conducting the required magnetic particle inspection required by Avco Lycoming Overhaul Manual and Service Instruction 1285.

A facility inspection conducted at Colonial Aviation revealed that Colonial Aviation did not possess magnetic particle inspection equipment, glass bead cleaning equipment, or the engine test stand instrumentation required by Lycoming to conduct overhauls.

RECOMMENDATIONS

Regulations require that type-certificated products conform to their type design. It is recommended that aircraft, aircraft records, and aircraft parts inventories be inspected and reviewed for engines or engine parts maintained, overhauled, or returned to service by Colonial Aviation, or under the Mechanic Certificate (Airframe and Powerplant Ratings) No. 043341932. If any of these parts are installed or found in existing stock, it is recommended that appropriate action be taken to verify that maintenance or overhaul instructions have been complied with.

FURTHER INFORMATION

The Tampa Flight Standards District Office (FSDO), 5601 Mariner Street, Balboni Bldg., Suite 310, Tampa, FL 33609, telephone (813) 639-1540, would appreciate any information regarding the discovery of these engines from any source, the means used to

identify the source, and the actions taken to remove the affected engines from aircraft and/or stock.

This notice originated from the South Carolina FSDO. Additional information regarding this notice may be obtained by contacting Donald V. Dodge, FAA Aviation Safety Inspector, at (803) 765-5931. This notice was published through the FAA Suspected Unapproved Parts Program Office, AVR-20, telephone (703) 661-0580, fax (703) 661-0113.

NEW ADVISORY CIRCULAR

The FAA Aircraft Certification Service, ACE-100, issued Advisory Circular (AC) 20-143; Installation, Inspection, and Maintenance of Controls for General Aviation Reciprocating Aircraft Engines; dated June 6, 2000. This is an excellent publication and is recommended reading for everyone involved with the operation or maintenance of general aviation reciprocating engines.

AC 20-143 contains 13 pages of text and illustrations along with 9 pages of figures and drawings. The text covers the subjects of related regulatory requirements and general installation and maintenance of typical general aviation engine controls.

I especially like the inclusion of many figures, drawing, and the "common language" text. As the saying goes, a picture is worth a thousand words!

This AC may be downloaded free from the Internet at the following web site: http://www.faa.gov/avr/air/acs/achome.htm

If you prefer, you can get a printed copy by using the "Order Blank" included in appendix 5 of AC 00-2.13, Advisory Circular Checklist, dated June 2000, or previous revisions.

TELEDYNE CONTINENTAL

The following article was submitted by the FAA, Aircraft Certification Office located in Atlanta, Georgia, and is printed with only minor editorial changes.

During a recent investigation of an accident involving a Cessna Model 150, with a Teledyne Continental Motors (TCM) Model O-200 engine installed, it was noted that one of the rocker arm bosses was cracked.

There is an Airworthiness Directive (AD) (94-05-05 R1), which applies to the TCM Models C75, C85, C90, C125, C145, O-200, O-300, GO-300, and Rolls-Royce C90, O-200, and O-300 series engines. AD 94-05-05 R1 mandates dye-penetrant inspection of the rocker arm bosses for cracks, as well as, dimensional inspection of the rocker shaft for looseness. However, the required compliance time is "at the next cylinder removal from the engine or at engine overhaul, whichever occurs first." The engine installed in the accident aircraft had not reached the threshold for compliance. Neither the FAA service difficulty data base nor the accident/incident data base indicates that this is a widespread problem, but there are sporadic reports.

Because a cracked rocker shaft boss will result in engine failure, it is recommended that during the next annual inspection of these model engines, which have acquired more than 500 hours time-in-service, that the rocker box covers be removed and the dimensional inspection specified in paragraph (b) of AD 94-05-05 R1 be accomplished. If looseness of the rocker shaft is found, it is further recommended that the complete requirements of the AD be accomplished. As always, the submittal of a Malfunction or Defect Report would be greatly appreciated.

ACCESSORIES

USE OF BLIND FASTENERS

The following article was submitted for publication by the FAA Aircraft Maintenance Division, AFS-300, located in Washington, DC.

The investigation of a fatal aircraft accident revealed the use of special (blind) rivets in a structural area may have contributed to the cause of the accident.

The fasteners failed at a point where a bracket and flight control servo were attached and contributed to the eventual failure of that attachment. Also, this led to failure of the servo and loss of aircraft yaw control. Originally, the manufacturer had installed solid-shank rivets in this area due its structural application. Special (blind) rivets were chosen as replacement hardware to repair a component of the flight control system in the tail boom of the helicopter. The special rivets were used because of the difficulty in gaining access to the area, which prohibited the use of solid-shank rivets.

An aircraft, even though made of the best materials and strongest parts, would be of doubtful value unless those parts were firmly held together. Typical methods used to hold metal parts together include: riveting, bolting, bonding, brazing, and welding. Whatever the process used, it must produce a union that will be at least as strong as the parts that are joined. When selecting the type of fastener to replace an original manufacturer-installed fastener, special consideration of structural functions must be evaluated. Before using a substitute fastener, maintenance personnel should consult a source of approved technical data.

There are many places on each make and model of aircraft where access to both sides of a riveted structure or structural part is impossible. In some circumstances, limited space will not permit the use of a bucking bar. Also, in the attachment of many nonstructural parts such as aircraft interior furnishing, flooring, deicing boots, and the like, the full strength of solid-shank rivets is not necessary.

For use in such places, special rivets have been designed which can be installed by pulling the center stem causing the blind side to expand. Special rivets are sometimes lighter than solid-shank rivets, yet are amply strong for their intended use. These special rivets are produced by several manufacturers and have unique characteristics that require special installation tools and special installation procedures. They are commonly called "blind fasteners."

The correct and appropriate use of technical data references is essential in determining the proper choice of replacement fasteners. Some sources of approved and acceptable technical data include:

- 1. Current manufacturer's data, such as service information, bulletins, manuals, and manufacturer-issued repair schemes.
- 2. FAA Airworthiness Directives; Type Certificate Data Sheets; Advisory Circular (AC) 43.13-1B, Acceptable Methods, Techniques, and Practices—Aircraft Inspection and Repair; Designated Engineering Representative (DER); FAA approved or accepted industry standards, and FAA field approval data.

NOTE: Reference data such as: aviation industry specifications, standards, handbooks, and other data may not exist in paper form; however, they may be available in the electronic media.

Technicians can make a critical mistake when selecting the repair procedure and the type of replacement hardware to be used. Mistakes may originate when

hardware selection is part of the evaluation of the difference between major and minor repairs.

AIR NOTES

SUBSCRIPTIONS

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In the past, we furnished the GPO subscription form in this publication. The older issues which contain the subscription form, may not have current pricing information. Since GPO controls price increases, contact GPO for current subscription information.

ELECTRONIC VERSION OF THE FAA FORM 8010-4, MALFUNCTION OR DEFECT REPORT

One of the recent improvements to the AFS-600 Internet web site is the inclusion of FAA Form 8010-4, Malfunction or Defect Report. This web site is still under construction and further changes will be made; however, the site is now active, usable, and contains a great deal of information.

Various electronic versions of this form have been used in the past; however, this new electronic version is more user friendly and replaces all other versions. You can complete the form online and submit the information electronically. The form is used for all aircraft except certificated air carriers who are provided a different electronic form. The Internet address is: http://av-info.faa.gov/isdr/.

When the page opens, select "SDR Submissions Forms" and, when complete, use the "Add Service Difficulty Report" button at the top left to send the form. Many of you have inquired about this service. It is now available, and we encourage everyone to use this format when submitting aviation, service-related information.

SERVICE DIFFICULTY PROGRAM DATA AVAILABLE ON THE INTERNET

The FAA, Service Difficulty Reporting (SDR) Program is managed by the Aviation Data Systems Branch, AFS-620, located in Oklahoma City, Oklahoma. The information supplied to the FAA in the form of Malfunction or Defect Reports, Service Difficulty Reports, or by other means, is entered into the SDR data base. This information has been available to the public through individual written request. This method has provided the

aviation public with an invaluable source of data for research or finding specific problems and trends.

The Service Difficulty Reporting Program relies on the support of the aviation public to maintain the high quality of data. AFS-620 has included the SDR data on an Internet web site, which is now available to the public. Using the web site will expedite the availability of information. The Internet web site address is:

http://av-info.faa.gov

On this web site, select "Aircraft" along the top of the page, next select "Service Difficulty Reporting," and then select "Query SDR Data."

This web site is now active; however, it is still under development and improvements are being made. We ask for your patience, ideas, and suggestions. If you find the web site useful, let us know. Also, spread the word about the availability of information on the web site. To offer comments or suggestions, you may contact the web master or call Tom Marcotte at (405) 954-4391.

Please remember that the information contained in the SDR data base is only as good as the input we receive from the aviation public. Also, the data used in production of this publication is derived from the SDR data base. In that regard, we solicit and encourage your participation and input of information.

This publication, as well as many other publications, was previously included on the "FedWorld" internet site. The FedWorld site was terminated on April 15, 2000. The data previously listed there is presently being transferred to the "av-info" web site.

ADDRESS CHANGES

In the past, the Designee Standardization Branch (AFS-640) maintained the mailing list for this publication. Now, the Government Printing Office (GPO) sells this publication and maintains the mailing list; therefore, please send your address change to:

U.S. Government Printing Office **ATTN: SSOM, ALERT-2G** 710 N. Capital Street N. W. Washington, DC 20402

You may also send your address change to GPO via FAX at: (202) 512-2168. If you FAX your address change, please address it to the attention of: **SSOM, ALERT-2G**.

Whether you mail or FAX your address change, please include a copy of your old address label, and write your new address clearly.

IF YOU WANT TO CONTACT US

We welcome your comments, suggestions, and questions. You may use any of the following means of communication to submit reports concerning aviation-related occurrences.

Editor: Phil Lomax (405) 954-6487 **FAX:** (405) 954-4570 or (405) 954-4748

Mailing address:

FAA ATTN: AFS-640 ALERTS P.O. Box 25082 Oklahoma City, OK 73125-5029

E-Mail address:

<Phil_W_Lomax@mmacmail.jccbi.gov>

You can access current and back issues of this publication from the internet at:

http://afs600.faa.gov

This web site also has view, search, E-Mail, and M or D submit functions.

AVIATION SERVICE DIFFICULTY REPORTS

The following are abbreviated reports submitted between June 16, 2000, and July 24, 2000, which have been entered into the FAA Service Difficulty Reporting (SDR) System data base. This is not an all inclusive listing of Service Difficulty Reports. The full SDR reports can be found on the internet at: http://www.fedworld.gov/pub/faa-asi/faa-asi.htm. This internet address takes you to the FAA ASI Library and the SDR reports are listed by weekly entries. This data base is maintained by the FAA, Regulatory Support Division, Aviation Data Systems Branch, AFS-620 located in Oklahoma City, Oklahoma. The mailing address is:

FAA Aviation Data Systems Branch, AFS-620 PO Box 25082 Oklahoma City, OK 73125

These reports contain raw data that has not been edited. If you require further detail please contact AFS-620 at the address above.

FEDERAL AVIATION ADMINISTRATION

Service Difficulty Report Data

Sorted by Aircraft Make and Model then Engine Make and Model. This Report Derives from Unverified Information Submitted By the Aviation Community without FAA review for Accuracy.

ACFT MAKE	ENG MAKE	COMP MAKE	PART NAME	PART CONDITION	DIFF-DATE	T TIME
ACFT MODEL	ENG MODEL	COMP MODEL	PARTNUMBER	PART LOCATION	FAAREPORTNO.	TSO
REMARKS						
AIRTRC			ATTACH	CORRODED	05/15/2000	5253
AT401			3010610	HORIZSTABSTRUT	2000061700639	
INTERNAL CORROS	SION CAUSED FAILURE	EOFHORIZONTALS	TABILIZER STRUTA	TLOWER ATTACH FITTING	S. SUBMITTER RECOM	MENDED
LOWERATTACHPO	DINT DESIGNED SIMILA	AR TO UPPER FITTIN	GANDLINSEEDOIL	APPLIED TO INSIDE OF ST	RUT. (X)	
AMRGEN	LYC	PRECISION	FLOAT	DAMAGED	03/20/2000	
AA5B	O360A4K		30800		2000070700122	225
ENGINE WOULD NO	OT RUNUNLESS MIXT	URE WAS LEANED A	LMOSTTOIDLECU	T-OFF, ITWAS VERY RICH	AND WOULD NOT RU	JN ABOVE
1,500 RPM. FOUND	PLASTIC FLOAT FILL	ED 100 II AVGAS TW	O OF THREE CHAM	BERS, FLOAT PN 30-800 (CARBURETOR ASSY,	DATE 9-97.
(X)						
AMTR	CONT	FACET	FLOAT	LEAKING	09/29/1999	1150
VARIEZE	O200*		30766	CARBURETOR	2000071900403	
				NFOUNDACRACKINTHE		TIALY
FILLED. NO PREVIO	OUS INDICATION, POSS	SIBLE DUE TO CARBI	JRETOR POSITION.	COMPONENTS/N 104894	A1BE1410418.(X)	
BALWKS			ENVELOPE	DETERIORATED	06/05/2000	
FIREFLY11				FABRICPNLS	2000061700642	
	-			PESEAM. GORETAPEMA		-
				DXIMATELY 1 INCH FROM I		
		SED THE GORE TAPE	MATERIALFROMA	SOFTER MORE PLIABLE	TAPE TO A STIFF TAPE	EWITH
SHARP EDGES. (X)						
BBAVIA		MAULE	CLIP	SEPARATED	06/22/2000	
11AC			2609	STEERINGSPRING	2000071900589	
		ING STEERING SPRI	NGTO COME LOOS	EOFTAILWHEELSTEERIN	NG HORN RESULTING	INALOSS
OFLEFTSTEERING	CONTROL.(X)					

BBAVIA			HINGE	BROKEN	05/10/2000	
1877 7GC			2709	BOTTOMTAB	2000062200401	
DURING WINDS OF APPRO						
AILERON. FURTHER INVES						
BROKENPREVIOUSLY.TH						OTICED
DURING ROUTINE INSPEC	TIONDUETOTHEF				` '	
BBAVIA LYC	200545		MAGNETO	CONTAMINATED	05/05/2000	
	0320E1B	4100111014/1151151	4150	TI OM DOMED OF THE	2000061700326	\ (ED
OWNER COMPLAINED OF I						
INTERIOR OF MAG CONTA						
SLICK SB RECOMMENDS F						LAND
BELL		ELL	BULKHEAD	CRACKED	02/16/2000	
8345 206B			202.11.27.12	TAILBOOM	206030446001F	
PARTINQUESTIONISLOC	ATED ON THE AFT I	MOST SECTION C	NTHE HELICOPTE		OTOR GEARBOX AFT M	MOUNT
STUDS PASS THROUGHTH	HETOPOFTHISFIT	TINGONTHELEF	TANDRIGHTSIDES	. CRACKS DEVELOPED FI	ROMTHESE STUDHOL	LESTO
ADJACENT MOUNTING RI\						
FITTING INSTALLED. CRAC			100-HOUR INSPECT	TION. POSSIBLE CAUSE CA	AN BE UNDER OR OVE	R
TORQUING OF INSTALLAT	•					
BELL		ELL	BULKHEAD	CRACKED	04/03/2000	
7527 206B				TAILBOOM	2000062200514	
DURING ROUTINE INSPECT TRACK OR OTHER FORM (
FROMTAIL ROTOR OUT OF						
INSPECTION OF SURROUN						VIGILAIVI
BELL ALLS			BEARING	WORN	05/21/2000	
49420 206B		-	6894171	SUPPADAPTR	2000071900593	
(CAN) WHILE IN-FLIGHT, TH						DATA
CLEARING AND SHUT DOW						
FOUND FERROUS METAL (
LIGHT ON THE INSTRUMEN	NT PANEL. THE SYST	ΓEMWAS	INSPECTED FOR LIC	SHT INDICATION AND FOU	IND SERVICEABLE. GE	ARBOX
TSN 11,413.5 HOURS. TIME	E SINCE LAST MAJO)R				
BELL ALLS			BRUSHBLOCK	BROKEN	04/11/2000	
206B 250C			230321380	STARTER		436
(CAN) POST-FLIGHT INSPE						
BRUSH. UPON REMOVAL,					FF.HOWEVER, THE ST	ARTER/
GENERATOR WAS STILL F BELL ALLS			STRAP	DETERIORATED	05/15/2000	
206B3 250C			-	MAIN ROTOR HEAD	2000071200294	
(AUS) TENSION-TORSION						NTTOTHE
LATCHBOLTBUSHINGSW						
BELL ALLS			MAINROTOR	DAMAGED	06/01/2000	
206B3 250C	C20B TR	UNNION		SPLIT CONE HALF	2000072100046	304
(AUS) MAIN ROTOR SPLIT		LED UPSIDE DOV	WN. MAIN ROTOR TR	RUNNION CHAMFER DAM	AGED BY SHARP EDGE	EOF
CONE. MAST SPLIT CONES						
BELL ALLS			NOZZLE	CRACKED		206
BELL 250C			6878426	1 BLADE PATH CIR	2000071900526	
(CAN) A GROUP OF 2ND ST						,
WHICHWAS AN APPROVE	,	-		-	FIRST STAGE BLADE	PATH
WAS JOINED TO THE 2ND S BELL ALLS			COMPRESSOR	CRACKED	03/15/2000	
206L1 250C	···	LSIN	23056109	UPPERR/H	2000072200166	
(CAN) 1.5 INCH CRACK FOL		SOR SCROLL STA				
DISCHARGE ELBOW AND T				TO BIOCOT CONCELL TO	JOINE COMPAND	
BELL PWA		201 0010102171	TUBE	LOOSE	03/29/2000	
212 PT6T			212076151007	CYCLIC	2000072100086	
(CAN) DURING INSPECTIO	N, THE RIGHT CYCL	IC SERVO INPUT	LEVER WAS FOUND	IN AN AFT OF CENTER OF	RIENTATION. SUBSEQU	JENT
OBSÉRVATION REVEALE	BOTH CYCLIC BO	OSTTUBESHAD	LOOSE CLEVIS ASS	EMBLIES AT LOWER END	D. THIS CAUSED THE SI	ERVOTO
ROTATE IN ANY POSITION.	AND INTERFERE W	ITHTHE PARENT	STRUCTURE. NORM	MALLY, THE CLEVISES MU	ISTBETIGHTANDLOC	KEDIN
POSITION TO PREVENT TH	HE SERVO FROM TU	RNING. THE USE	OF SILICONE SEAL	WAS USED TO BOND THE	THREADED CLEVISTO	OTUBE
AS PER BELL MAINTENAN	CEMANUAL.BELL V	VAS INFORMED A	AND STATED THAT I	THEY ARE MAKING THE CO	ORRECTIONTOTHE	
MAINTENANCE MANUAL.						
BELL		ELL	TAILPIPE	CRACKED	02/14/2000	
222U			222063307141	X-TUBES & BRKTS	2000071900556	- A II
(CAN) TAILPIPE FORWARD						
INSPECTION REVEALED W						
THENNOTED IN 3 AREAS. B BELL LYC		WAS INFORMED	SPACER	CORRODED	02/13/2000	э.
	101750C1		222012724103	TAIL ROTOR	2000063000145	
(AUS) TAIL ROTOR PITCH (D
JAMMED THE SPLINE PLAT						-

JAMMED THE SPLINE PLATE PN 222-012-725-001 ON THE OUTPUT SHAFT SPLINES.

BELL 634	ALLSN 407	BELL 250C47B	BEARING 407030801105	FRETTED TAIL ROTOR G/B	04/15/2000 2000061700677
					EDMETALLIC FRETTING DUST
					ETWEENTAIL ROTOR GEARBO) SAWAITING RESULTS OF THIS
INVESTIGATION		SUNDERINVESTIGA	TIOND I WANUFACT	UKEKAND SUDIVITI TEKT	SAWAITING RESULTS OF THIS
BELL	.(^)		SKIN	CRACKED	12/21/1999
412			212030191001	TAILBOOM	2000062200307
DURING DAILY II			INTHE SKINJUST BEL	_OWTAIL BOOM ATTACH	I FITTING ON UPPER LEFT HAND PTER FROM SERVICE. REMOVED
OF CHIPS AND B BROKEN FITING	URRS ON ALL BUT 2 H AND BEAM CAP. AFTE	IOLES. BEAM CAP IS ER REMOVING A SEC	THE SAME. MOST OF	FTHE HOLÈS HAD NOT B ORTION OF BEAM CAP, FO	LTHAND FITTING HAD EVIDENC EEN DEBURRED. THIS IS ON TH OUND HOLES HAD NOT BEEN
				DLES WERE NOT DEBURE	` '
BOLKMS	ALLSN	BOLKMS	BUSHING	LOOSE	05/01/2000
BO105S	250C20B	1053172901	1053172904	TAIL ROTOR ASSY	2000072200162 VN. T/R WAS DISASSEMBLED AN
,					R SLEEVE AND WAS RUBBING TH
OUTBOARD SPA	CER, LOCATED INSID				
CESSNA			SHIMMY	FAILED	04/22/2000
172	. THE BLOWN OT A VIII	0.70.71.50.440.441	08424008	NOSE	2000061700546
	,				HE APPLIED BRAKES AND THE
PROPELLER MA		E GROUND. INSPEC			E AND THE LEFT WING TIP AND E GEAR SHIMMY DAMPER AND
CESSNA		CESSNA	SEAT	FAILED	05/24/2000
60541	172M		0514090		2000062200235
	,				DJUSTMENT AND PREVENTS FL
				ACTURER DEFECT. (X)	
CESSNA	LYC	CESSNA	FLAPTRACK	CRACKED	05/04/2000
172M	O320E2D		052323113	TEFLAP	2000062900203
					JD BANG AS THE FLAPS WERE
					NUED BACKTO BASE AND LAND
		SONNEL FOUND THA		D FLAP TRACK (RIB ASSY BLOCKED	,
CESSNA 172M	LYC O320E2D		HOSE MILH60003Q98	OILBREATHERLIN	05/02/2000 2000063000021
		THED I INE EOLINDW		-	RWORTHY.NEW LINE WAS CUT C
					TTESTRUN, ENGRUN-UPON
GROUNDATTA	KEOFF POWER, CRUIS	SEPOWER, AND POS	ST-MAINT CHK IAW CE	ESSNAMM, CESSNA 172N	M. PILOTS OPER HANDBOOK WIT OFF, PILOT NOTED OIL SMOKE
ENTERING COCI	KPIT, DECLARED EMEI	RG, RETURNEDTO A	IRPORT. DURING RET	URN, FRONT CRANKSHA	FT SEALBLEW OUT CAUSING
LOSS OF OIL PR SHOVED 4 INCHE	,	JTOFFRONTSEAL.	ACFT LANDED SAFEL	Y. INSP FND NEW BREAT	THER LINE BLOCKED. PLASTIC C
SHOVED4INCHI CESSNA	LYC		SERVO	VAPOR LOCK	06/25/2000
590	172S	O360*	RSA5AD1	FUELENG	06/25/2000 2000071900524
	_				FF. ON THE 6 TH LANDING WHEN
THROTTLEWAS	RETARDEDOVERTH	E RUNWAYTHRESH	OLD, ALTERNATOR L	IGHT ILLUMINATED AND	ON ROLL-OUT, ENGINE QUIT. IANCE INSPECTED AND STARTE
					GTHNORMAL.UPONRETURN NARRIVAL, ENGIDLE WAS ROUG
DLESPEEDERF					DIFFICULTIES. FUEL SERVOSEN
TO	0017		OD *****	DAMAGED	05/00/0000
CESSNA 180	CONT		CRANKSHAFT	DAMAGED	05/08/2000 1
180 O470K			649134	ENGINE	2000062200419
	0-5, CRANKSHAFT WA	SREJECTEDBYTEL			2000002200419
CESSNA	,	ULUI ILL	BUSHING	ERODED	06/09/2000
3	180K		07421801	TAILWHEELSPRIN	2000062900195
RECENTLYINST					N. SUBMITTER KNOWS OF ONE
CESSNA			ATTACH	CRACKED	05/30/2000
182A			07122071	LTSIDE	2000062200495
					EXTTO A MOUNT BOLT. APPRO
ORIGINALPART	SWERE RETURNED T	OSERVICE.ITISBEL	IEVED THE STABILIZE	ER AND MOUNT BRACKE	REPLACED. VERY FEW OF THE TWERE DAMAGED DURING OR B HAT ATTACH IT TO THE ACFT WA
OVERLOOKED.		IL TAIL. THE OWALLY	OLUMONINE AT TO ONL	_ O. THE IWO DOLIGHT	MANTAGINI TO INEAGIT WA

CESSNA	ANGLE	RUSTED	04/12/2000	3811
182E	07106082	GEARBOX	2000062200274	
DURING ANNUAL INSPECTION, DISCOVERED PN 0710608-2 A				
MONTHSPRIOR TO THIS INSPECTION, AND THE AIRCRAFT WA				
AND DEBRIS IN THE BELLY. AIRCRAFT WAS PREVIOUSLY OF PLUGGED WITH MUD AND DEBRIS. AND ALLOWED WATER TO				
OF AIRCRAFT THOROUGHLY. (X)	COLLECT. SUBIVIT	TERSTATEDDURINGFUT	UKE AININUALS, IINSI	-ECI BELLI
CESSNA	FLAPTRACK	CRACKED	04/11/2000	
182P	122101015	LTWING	2000061700190	
SHEARED RIVETS AT FORWARD LOWER END OF FLAP TRAC				
WING FLAP WAS DAMAGED WHEN FLAPS WERE RETRACTE		AS MADE WITH BRACKET	INFLAP WELL. POS	SIBLE
CAUSE, OPERATING FLAPS ATHIGHER THAN NORMAL SPEE CESSNA	` '	LEAKING	00/04/0000	
182S	PUMP 5100001RX	LEAKING	06/01/2000 2000062200703	
SEAL BETWEEN PUMP AND MOTOR LEAKING SEVERELY OU		ONLY WAY TO STOP IT FE		TURNTHE
FUEL SELECTOR VALVE TO THE OFF POSITION. THE ORIGIN.				
OVERHAULED PUMP P/N 5100-00-3RX. AIRCRAFT TT, 593.2 H	RS.SUBMITTER	STATEDTHEYHAVEEX	PERIENCED SAME PE	ROBLEM
WITH OTHER CESSNA 182S MODELS. (X)				
CESSNA	RUDDER PEDAL	WRONGPART	11/22/1999	
187 182S THE PILOT"S LEFT RUDDER PEDAL HAS THE WRONG PART N	04117785	LTRUDDER PEDAL	2000062800059	JE DADTO
BREAKDOWN. PN 0411778-5 IS TOO SHORT AND WILL SHEA			COMEOUT. THIS W	
CAUSE POTENTIAL LOSSOF RUDDER CONTROL. SUBMITTER				
INSTALLED: PN 0411778-6. (X)		, <u>=</u> 		
CESSNA LYC	NUT	DEFECTIVE	04/07/2000	
191 206H O540*	MS21044N3	FUELINJECTION	2000062200509	
DURING A 100-HOUR INSPECTION, THE FUEL INJECTION LINE FIBER LOCK WAS MELTED FROM THE HEAT OF THE ENGINE D				-
NUTS, P/N MS21045. (X)	JURING OPERATION	N. ALLINU IS WERE REPLA	CED WITH ALL-STEE	LLOCK
CESSNA	SCREW	MISINSTALLED	03/05/2000	
208B	MS24694	WINGPLATE	2000062900197	
(CAN) DURING A PHASE 1 INSPECTION, INCORRECT LENGTH				FORTHE
AILERON BELLCRANK. THE SCREWS WERE RUBBING ON THE	BELLCRANKANDT	THE SUBMITTER STATED	THAT THE ENDS OF T	HE
SCREWSWERE FOUND WORN OFF.	FITTING	10005	05/00/0000	44500
CESSNA CONT CESSNA 402B TSIO520E 082260068	FITTING 082260030	LOOSE TIPTANKS	05/02/2000 2000062900202	11500
(CAN) DURING SCHEDULED INSPECTION, MOVEMENT WAS N		-		NFI
APPLIED UPAND DOWN FORCES TO THE TIP TANK TRAILING				
THE OUTBOARD RIB (THROUGH THE REAR SPAR) WERE FOU	ND SHEARED. THE	SUBMITTER STATES THAT	TTHIS IS THE SECON	DAIRCRAFT
HE HAS FOUND IN THIS CONDITION.				
CESSNA CESSNA	MOUNT	CRACKED	05/19/2000	
5233 421C DURING ANNUAL INSPECTION, FOUND ONE INCH CRACK LEF	503403034	LTENGINE BAY	2000061700193	PCAP
EXHAUST CORROSION IN THIS AREA WAS NOTED. PER AD 2				
ALSO IN THIS AREA THAT MAY HAVE CONTRIBUTED TO THIS		OTOTEM, TOOTED ON TOTAL		01121110
CONAER	MOUNT ` ´	CRACKED	04/14/2000	757
LA4	LA4180	RTLOWER	2000061700396	
RIGHTLOWER ENGINE ATTACH POINT CRACKED TO RIGHTS		IT. (RADIALLY THROUGH N	MOUNT TUBE). DETE	CTED
DURING ANNUAL INSPECTION VISUALLY AND VERIFIED BY D GROB	PUSHRODTUBE	FAILED	05/10/2000	7775
G103ATWINII	1 OOI INOD TOBE	96 INCHOUTBD	2000061700497	7773
LEFT WING AILERON PUSH ROD FOUND MISSING PLASTIC BI	EARING CAUSING R			ACES.(X)
HUGHES ALLSN	DRIVE SHAFT	DAMAGED	03/03/2000	9502
369D 250C20B	369D25518	DAMPERBRACKET	2000072100084	
(CAN) UPON REMOVAL OF TAIL ROTOR GEARBOX AND DRIV				
INVESTIGATION REVEALED THAT THE DAMPER BRACKET W	AS BROKEN OFF WE	HICH ALLOWED THE TAIL F	ROTOR DRIVESHAFT	ITOWHIP
AND RESULT IN THIS DAMAGE. MTSBSI	WINDOW	SEPARATED	04/25/2000	6477
MU2B25	010A31890	LEFTCABIN	2000062800063	0111
IN-FLIGHT, APPROXIMATELY 18,000 FEET, AIRCRAFT LOST PI	RESSURIZATION. AF	TER LANDING, INSPECTION		Т
REVEALEDLEFT CABIN WINDOW HAD FAILED. DAMAGE WAS		NDOW, NO OTHER	AIRFRAME PARTS	WERE
DAMAGED. WINDOW HAD BEENPOLISHED 8 MONTHS EARLIE	` '	10005	00/40/4000	0.5
PIPER CONT	PLUG	LOOSE	08/16/1999	85
J3C65 A651 FOLLOWING MAJOR OVERHAUL, ALUM PARTICLES WERE FO	25117 DUND IN THE OIL SC	PISTONPIN REENAT 30, 55, AND 75 H	2000071900307 OURS CYLINDERS \	WERE
REMOVED AND THE PISTON PIN PLUGS WERE FOUND WORN				
AND CAME FROMA SET. THE OVERHAUL MANUAL CALLS FO				
LIMIT IS .003 INCH LOOSE AND PLUGS HAVE ALWAYS SLID IN	NAND OUT. SUBMIT	TER STATED THEIR FIX V	VASTO GET PLUGS V	WITHA
.0025 INCH FIT. (X)	ODAD	00000000	00/45/0000	
PIPER	SPAR	CORRODED	06/15/2000	

PA28160	62015	(0000000:	2000061700717	
FORWARD LOWER EDGE OF MAIN SPAR INBOARD BE				
THICKNESS.MICE NESTS AND FECAL MATTER FOUND EVERY 5 YEARS. ALSO, INSTALL INSPECTION HOLE B			ALFORINSPECTIONAL	LEAST
PIPER	TRUNNION	CRACKED	05/22/2000	8724
PA28161	7873802	TORQUELINKLUG	2000062700067	J 1
RIGHT GEAR OLEO PISTON ASSY TORQUE LINK LUGS	CRACKED. EARLY DET	ECTION CAN ONLY BE DET		RANTOR
OTHER NDT INSPECTION. AIRCRAFT USED FOR TRAIN		` ,		
PIPER NARCO	SENSOR	LEAKING	03/09/2000	1086
PA28181 *STATIC SYSTEM LEAK GREATER THAN 100 FEET/MII	VILITE TO A CED TO TUIC	INIT ADOEDONI VTMOVE	2000061700321	E AIDCDAET
WAS NEW. AR850""""S ARE NOT KNOWN TO BE FAULT				
ASSEMBLY OF SENSOR. THIRD FAILURE KNOWN TO S		SMITEROTATED TO COOLDER	1171110017101011112	
PIPER	MOÙŃT	BROKEN	05/30/2000	8696
PA28R201	6711957	RT DRAG BRACE	2000062200707	
PILOT REPORTED GEAR UNLOCKED INDICATION WITH				
ABOVE RIGHT DRAG BRACE MOUNT. WHEN GEAR WA	COOLER	FAILED	05/08/2000	4600
A31310 TIO540J2BD	8535311	RT ENG OIL SYS	2000072100246	4000
ASAIRCRAFTROTATED DURING TAKEOFF, MANIFOLD				IEDTO
AIRPORT AND SECURED ENGINE AFTER LANDING. ON	INSPECTION, FOUND O	ILCOOLER BOWED OUTWA	ARD AND INNER COILS I	BULGED
WITH 2.5 INCH SPLIT. OIL COOLER WAS OVERHAULED				EDFOUND
ON COOLER. FOUND NO REASON FOR COOLER RUPT		- ,	()	
PIPER PA31350	ROD	BINDING DOWN AND LOCK	05/19/2000 2000062200497	
-RTMAIN GEAR NO DOWN AND LOCK INDICATION. FO	UND ROD AND BINDING			EANEDAND
LUBED, OPS CHECKED GOOD. (X)	5.1511057110511101110		231 HTT 21 LAGE. OLI	
PIPER LYC	FUELLINE	LEAKING	04/20/2000	
PA31350 TIO540J2BD	565583	FUELINDICATOR	2000062200505	
DURING CRUISE, PILOT SMELLED FUEL. AFTER LOOKI				COPILOT"S
CARPET. THE AIRCRAFT IMMEDIATELY RETURNED TO PIPER GARKENY		FAILED	03/22/2000	4343
PA32RT300	MS3877	NLG ACTUATOR	2000062200502	4343
AFTER TAKEOFF, THE NOSE GEAR FAILED TO FULLY		1120710717011		
ALTER TARLOTT, THE NOOL GLART AILED TOT GLET	RETRACT AND WOULD	NOT EXTEND TO DOWN AN	DLOCKED POSITION.	THE PILOT
PERFORMED VAROIUS MANEUVERS AND GEAR FINAI	LLY EXTENDED DURING	A POWER OFF STALL. AFT	ER LANDING INSPECTI	ON, FOUND
PERFORMED VAROIUS MANEUVERS AND GEAR FINAL THE SHAFT O-RING ON THE NOSE GEAR ACTUATOR IS	LLY EXTENDED DURING	A POWER OFF STALL. AFT	ER LANDING INSPECTI	ON, FOUND
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(CAN) PILOT COMPLAINED OF WING ROCKING PROBLEM. INVESTIGATION FOUND 1/4 PLAY AT RUDDER TRAILING EDGE WHILE PEDALS BEING HELD AT FULL DEFLECTION. PLAY FOUND TO ORIGINATE FROM BELLCRANK FITTING (P/N 50-600016) AND LOWER SUPPORT TUBE ATTACHMENT POINT (RIVETS). DISASSEMBLY FOUND THE RIVETS WORN, THE 3 BOLTS (P/N AN 173-12A) CONNECTING THE RUDDER BELLCRANK AND BELLCRANK FITTING SLIGHTLY BENT AND THE HOLES DISTORTED NEW BELLCRANK, BELLCRANK FITTING AND BOLTS INSTALLED. SUBMITTER SUSPECTS DAMAGE CAUSED FROM WIND GUSTS AND TO WING WITH GUST LOCK ON. RAYTHN PIN WORN 05/25/2000 B200 508103437 MLG DOWNLOCK 2000061700501 THE RELEASE LINKS AND PINS IN BOTH MAIN LANDING GEAR DOWNLOCKS WERE REMOVED FROM AIRCRAFT FOR INSPECTION. INSPECTION REVEALED BOTH PINS WERE WORN APPROX.002 INCH BEYOND LIMITS AND BOTH LINK PINH HOLES HAD CIRCUMFERENTIAL SCRATCHES INDICATING THAT PINS HAD AT SOME TIME ROTATED IN LINK. PINS AND LINKS WERE REPLACED. ACFT TIME: 8,933.1 HOURS, 5,559 LANDINGS. SUBMITTER SUGGESTED THAT HOOK AND LINK ASSYS BE DISASSEMBLED AND INSPECTED AT EACH 6 YEAR 8,000 LANDING INSPECTION OF DRAG BRAKE ASSY. (X) RAYTHN PWA BLADE MISSING 05/30/2000 B99 PT6A27 3013102 PTDISK 2000062200705 ONTAKEOFF, PILOT FELT AIRCRAFT SHUDDER, RETURNED TO FIELD WITHOUT ANY DAMAGE TO AIRCRAFT. UPON INVESTIGATION ON ENGINE, FOUND 2 INCH SQUARE AREA MISSING FROM EXHAUST. UPON FURTHER INVESTIGATION, FOUND PORTION OF POWER TURBINE BLADE MISSING. THIS ENGINE HAD 339.1 HOURS SINCE POWER SECTION WAS DISASSEMBLED FOR POWER TURBINE BLADE INSPECTION. (X) RAYTHN SHIMMY LEAKING 06/07/1999 C23	RAYTHN B100 WHILE DOING A HOT TUBULARENGINE MO THE TUBULAR CROS	SECTION INSPECTION ON THE RIGHT EN DUNT CROSS-MEMBER. AFTER FURTHER SS-MEMBER. (X)	909100141 IGINE AFTER REMO R INVESTIGATION, F	VAL FROM THE AIRCRAFT OUND AN ENGINE MOUNT	03/29/2000 2000061700400 T, NOTICED DAMAGE BRACKET RUBBING	5807 TOTHE AGAINST
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	RAYTHN B100 WHILE DOING A HOT TUBULARENGINE MO THE TUBULAR CROS RAYTHN B100 (CAN) PILOT COMPL BEING HELD AT FULI ATTACHMENT POIN' BELLCRANK ANDBE INSTALLED. SUBMIT RAYTHN B200 THE RELEASE LINKS INSPECTION REVEA SCRATCHES INDICA 5,559 LANDINGS. SU LANDING INSPECTIO RAYTHN B99 ON TAKEOFF, PILOT ENGINE, FOUND 2 IN' BLADE MISSING. THI (X)	SECTION INSPECTION ON THE RIGHT ENDUNT CROSS-MEMBER. AFTER FURTHER S-MEMBER. (X) GARRTT BEECH TPE3316252B AINED OF WING ROCKING PROBLEM. INV. DEFLECTION. PLAY FOUND TO ORIGINAT (RIVETS). DISASSEMBLY FOUND THE RLCRANK FITTING SLIGHTLY BENT AND TER SUSPECTS DAMAGE CAUSED FROM SAND PINS IN BOTH MAIN LANDING GEAR LED BOTH PINS WERE WORN APPROX. 00 ITING THAT PINS HAD AT SOME TIME ROTH BMITTER SUGGESTED THAT HOOK AND ON OF DRAG BRAKE ASSY. (X) PWA PT6A27 FELT AIRCRAFT SHUDDER, RETURNED TO THE SOUARE AREA MISSING FROM EXHAL	909100141 IGINE AFTER REMO RINVESTIGATION, FI BELLCRANK 50600016 /ESTIGATION FOUN ATE FROM BELLCR. IVETS WORN, THE: ITHE HOLES DISTOR MWIND GUSTS AND PIN 508103437 DOWNLOCKS WER DOZINCHBEYOND LIN FATED IN LINK. PINS D LINK ASSYS BE DIS BLADE 3013102 TO FIELD WITHOUT JST. UPON FURTHEI ER SECTION WAS DI	OVAL FROM THE AIRCRAFT OUND AN ENGINE MOUNT LOOSE RUDDER ID 1/4 PLAY AT RUDDER TI ANK FITTING (P/N 50-6000 3 BOLTS (P/N AN173-12A) ITED NEW BELLCRANK, B ITOWING WITH GUST LOO WORN MLG DOWNLOCK EE REMOVED FROM AIRCF WITS AND BOTH LINK PINH S AND LINKS WERE REPLA SASSEMBLED AND INSPE MISSING PT DISK ANY DAMAGE TO AIRCRA R INVESTIGATION, FOUND ISASSEMBLED FOR POWE	03/29/2000 2000061700400 T, NOTICED DAMAGE: BRACKET RUBBING 04/28/2000 2000062900196 RAILING EDGE WHILE 16) AND LOWER SUP CONNECTING THE RI ELLCRANK FITTING A EKON. 05/25/2000 2000061700501 RAFT FOR INSPECTIC HOLES HAD CIRCUMF CED. ACFT TIME: 8,93 ECTED AT EACH 6 YE. 05/30/2000 2000062200705 FT. UPON INVESTIGA D PORTION OF POWER	5807 TOTHE AGAINST 68480 EPEDALS PORTTUBE JUDDER IND BOLTS ON. ERENTIAL 33.1 HOURS, AR 8,000 ATION ON RTURBINE
SHIMMY DAMPENER HAS NUMEROUS DEAD SPOTS (AIR INSIDE) WHEN ACTUATED. CAUSES NOSE WHEEL TO SHIMMY READ BAD. (X)	RAYTHN B100 WHILE DOING A HOT TUBULARENGINE MO THE TUBULAR CROS RAYTHN B100 (CAN) PILOT COMPL BEING HELD AT FULI ATTACHMENT POIN' BELLCRANK ANDBE INSTALLED. SUBMIT RAYTHN B200 THE RELEASE LINKS INSPECTION REVEA SCRATCHES INDICA 5,559 LANDINGS. SU LANDING INSPECTIO RAYTHN B99 ON TAKEOFF, PILOT ENGINE, FOUND 2 INI BLADE MISSING. THI (X) RAYTHN	SECTION INSPECTION ON THE RIGHT ENDUNT CROSS-MEMBER. AFTER FURTHER S-MEMBER. (X) GARRTT BEECH TPE3316252B AINED OF WING ROCKING PROBLEM. INV. DEFLECTION. PLAY FOUND TO ORIGINAT (RIVETS). DISASSEMBLY FOUND THE RLCRANK FITTING SLIGHTLY BENT AND TER SUSPECTS DAMAGE CAUSED FROM SAND PINS IN BOTH MAIN LANDING GEAR LED BOTH PINS WERE WORN APPROX. 00 ITING THAT PINS HAD AT SOME TIME ROTH BMITTER SUGGESTED THAT HOOK AND ON OF DRAG BRAKE ASSY. (X) PWA PT6A27 FELT AIRCRAFT SHUDDER, RETURNED TO THE SOUARE AREA MISSING FROM EXHAL	909100141 IGINE AFTER REMORINVESTIGATION, FOR INVESTIGATION, FOR INVESTIGATION, FOR INVESTIGATION, FOR INVESTIGATION FOUND ATE FROM BELL CRITICATION FOR INVESTIGATION FOR INVESTIGATION FOR INVESTIGATION LINK. PINSTOLINK ASSYS BE DISTOLINK ASSYS BE DISTOLINK ASSYS BE DISTOLINK ASSYS BE DISTOLING AS	OVAL FROM THE AIRCRAFT OUND AN ENGINE MOUNT LOOSE RUDDER ID 1/4 PLAY AT RUDDER TI ANK FITTING (P/N 50-6000 3 BOLTS (P/N AN173-12A) ITED NEW BELLCRANK, B ITOWING WITH GUST LOO WORN MLG DOWNLOCK IE REMOVED FROM AIRCF MITS AND BOTH LINK PINH S AND LINKS WERE REPLA SASSEMBLED AND INSPE MISSING PT DISK ANY DAMAGE TO AIRCRA R INVESTIGATION, FOUND ISASSEMBLED FOR POWE LEAKING	03/29/2000 2000061700400 T, NOTICED DAMAGE: BRACKET RUBBING/ 04/28/2000 2000062900196 RAILING EDGE WHILE 16) AND LOWER SUP CONNECTING THE RI ELLCRANK FITTING A EKON. 05/25/2000 2000061700501 RAFT FOR INSPECTIC HOLES HAD CIRCUMF CED. ACFT TIME: 8,93 ECTED AT EACH 6 YE. 05/30/2000 2000062200705 JFT. UPON INVESTIGA DPORTION OF POWEI ER TURBINE BLADE IN	5807 TOTHE AGAINST 68480 EPEDALS PORTTUBE JUDDER IND BOLTS ON. ERENTIAL 33.1 HOURS, AR 8,000 ATION ON RTURBINE
	RAYTHN B100 WHILE DOING A HOT TUBULARENGINE MO THE TUBULAR CROS RAYTHN B100 (CAN) PILOT COMPL BEING HELD AT FULI ATTACHMENT POIN BELLCRANK ANDBE INSTALLED. SUBMIT RAYTHN B200 THE RELEASE LINKS INSPECTION REVEA SCRATCHES INDICA 5,559 LANDINGS. SU LANDING INSPECTIO RAYTHN B99 ON TAKEOFF, PILOT ENGINE, FOUND 2 IN BLADE MISSING. THI (X) RAYTHN C23	SECTION INSPECTION ON THE RIGHT ENDUNT CROSS-MEMBER. AFTER FURTHER SS-MEMBER. (X) GARRTT BEECH TPE3316252B AINED OF WING ROCKING PROBLEM. INV. LDEFLECTION. PLAY FOUND TO ORIGIN/ T (RIVETS). DISASSEMBLY FOUND THE R LLCRANK FITTING SLIGHTLY BENT AND THE R SUSPECTS DAMAGE CAUSED FROM SAND PINS IN BOTH MAIN LANDING GEAR LED BOTH PINS WERE WORN APPROX.00 ITING THAT PINS HAD AT SOME TIME ROTH BMITTER SUGGESTED THAT HOOK AND ON OF DRAG BRAKE ASSY. (X) PWA PT6A27 FELT AIRCRAFT SHUDDER, RETURNED THE SUGNER OF STAND SINCE POWE	909100141 IGINE AFTER REMO RINVESTIGATION, FI BELLCRANK 50600016 /ESTIGATION FOUN ATE FROM BELLCRA IVETS WORN, THE: THE HOLES DISTOR IVINION BELLCRA IVINION	OVAL FROM THE AIRCRAFT OUND AN ENGINE MOUNT LOOSE RUDDER ID 1/4 PLAY AT RUDDER TI ANK FITTING (P/N 50-6000 3 BOLTS (P/N AN173-12A) ITED NEW BELLCRANK, B ITOWING WITH GUST LOO WORN MLG DOWNLOCK IE REMOVED FROM AIRCF MITS AND BOTH LINK PIN H S AND LINKS WERE REPLA SASSEMBLED AND INSPE MISSING PTDISK ANY DAMAGE TO AIRCRA R INVESTIGATION, FOUND ISASSEMBLED FOR POWE LEAKING INTERNAL	03/29/2000 2000061700400 T, NOTICED DAMAGE: BRACKET RUBBING/ 04/28/2000 2000062900196 RAILING EDGE WHILE 16) AND LOWER SUP CONNECTING THE RI ELLCRANK FITTING A EKON. 05/25/2000 2000061700501 RAFT FOR INSPECTIC HOLES HAD CIRCUMF CED. ACFT TIME: 8,93 ECTED AT EACH 6 YE. 05/30/2000 2000062200705 FT. UPON INVESTIGA D PORTION OF POWEI ER TURBINE BLADE IN 06/07/1999 2000061700394	5807 TOTHE AGAINST 68480 EPEDALS PORTTUBE JDDER UND BOLTS ON. ERENTIAL 33.1 HOURS, AR 8,000 ATION ON R TURBINE ISPECTION.

	GUSSET	CRACKED	05/15/2000	
C90	0001101122	BS 160.00 WS 110	2000062200405	DC 400 00
RIGHT LOWER OUTBOARD WING HAD CRACK IN DOUBLER A AND WS 110.11. TWO CRACKS IN WING SKIN RIGHT WING 4 IF				
TOP SIDE OF WING. TWO CRACKS IN WING SKIN ON LEFT WII				
SIDE OF WING. (X)		<u></u>		= :
RAYTHN PWA	TUBE	BROKEN	04/12/2000	7845
C90 PT6A21 WHILE APPLYING POWER FOR TAKEOFF, THE LEFT ENGINE V	3027974	FCU	2000062200234	VED AT
THE FUEL CONTROL UNIT. (X)	VOOLDINOT KESPO	IND. IINOFEU I ED AND FUUI	ND THE PT LINE CKAC	NEDAI
RAYTHN	ANNUNCIATOR	WILLNOTTEST	06/01/2000	
365 C90A		CABIN	2000062200665	
A/PTRIMFAILED, CABINALTHIGH, AND CABIN DOOR ANNUNC		ERMITTENT IN ANNUNCIAT	FOR TEST POSITION. F	FOUND
GROUNDING WIRE WRAPPED AROUND POSTS, BUT NOT SOL RAYTHN CONT	DERED.(X) CYLINDER	SEPARATED	05/04/2000	1548
E35 E2258	536727	BARREL	2000062200388	1340
752 AT		-		
ANNUAL INSPECTION, FOUND SIGNS OF SEEPAGE AT BARR			ROMHEAD) IN NR 4, N	NR 5, NR 6
CYLINDERS. POSSIBLE CAUSE IS AGE ON CYLINDERS AND T	, ,		0.4/0.0/0.00	0000
RAYTHN K35	ROLL PIN 520220940625	MISSING FUEL SEL VALVE	04/30/2000 2000062200494	3600
FUEL STARVATION, OFF AIRPORT LANDING. PILOT REPORTE				TENT.
APPROX 12 MINUTES LATER, ENGINE QUIT. AGAIN ATTEMPTE	EDTOSWITCHTAN	KS AND SELECTOR HANDL	E CAME DETACHED F	FROM
SELECTOR VALVE SHAFT. EMERG LANDING MADE AND ON F	,			,
HEAVY DAMAGE TO ACFT. INVEST REVEALED THE ROLL PIN				
LOWER. SUBMITTER STATED SAFETY WIRING ROBSIN LYC ROBSIN	SPAR	PIN AND SHAFT WOULD HA CRACKED	02/24/2000	⊏U1.(X)
R22BETA O320B2C	A0441	HORIZSTABILIZER	2000070700231	
(AUS) HORIZONTAL STABILIZER SPAR CRACKED THROUGH	ATTACHMENT BOL			TOR
STRIKE INSPECTION ALTHOUGHIT IS SUSPECTED THAT THE			05/40/2222	
ROBSIN LYC LYC	MUFFLER	FAILED	05/10/2000	
R22BETA O320B2C (AUS) EXHAUST MUFFLER SPLIT. MUFFLER WAS A NEW ITEM	A1696 <i>1</i> .	ENGINENOISESUP	2000071900016	
SKRSKY	TAIL BOOM	CRACKED	05/11/2000	396
S55		TAILCONE	2000062700100	
UPPER TAIL CONE SKIN AT STA 181.9 CRACKED APPROXIMA		, ,	00/01/5-5-5	
SNIAS AS350B	SPIDER 350A33200406	UNDERTORQUED TAIL ROTOR	06/01/2000 2000062800116	908
AS350B AFTER THE LAST FLIGHT OF THE DAY, INSP REVEALED TAIL				ECURING
SPIDER ASSY. THIS FINDING PROMPTED REMOVAL AND REPI				
P/N350A33.2004.06.TTINSERVICE186.6FLYINGHRSSINCE				
LOSS OF TORQUE, UNKNOWN. RECOMMENDATION TO PREV				
SNIAS TMECA AS350B ARRIEL1B	TURBINE M031070	FAILED FUELINJECT	06/14/2000 2000072100287	59300
(CAN) DURING START PROCEDURE STARTER WAS UNABLE T				MOVING
COMPONENTS ON THE ACCESSORY GEARBOX,, ENGINE WA	AS DISMANTLED TO	ISOLATE THE LOCK UP. LO	OCK UP WAS FOUND	TOBEIN
THE GAS PRODUCER ASSEMBLY (M024M03). ASSEMBLY WA		CENTER WHERE IT WAS F	FOUND TO BE FUEL C	OKING ON
THE LABYRINTH SEALSOF THE CENTRIFUGAL INJECTION WH		EAII ED	0E/24/2000	270
SNIAS AS350B2	DRIVEGEAR S40	FAILED HYD PUMP DRIVE	05/31/2000 2000061700136	370
HYDRAULIC PUMP FAILED IN-FLIGHT. PRECAUTIONARY LAND		_		COUPLING
(FEMALE SPLINES), AND THE DRIVE SPLINES AT THE HYD PUN				
INSUFFICIENT FOR DRIVE DEMAND. HYD PUMP DRIVE SPLINI				
BY CALENDER, POSSIBLE CAUSE OF FAILURE UNKNOWN, REC		,		
WHEN ACFT IS DELIVERED NEW, AND EACH 100-HOUR AIRFI ENCOUNTER	KAIVIE INSPINTERV	ALUP IO THE 500-HR INSI	- FUK A I KENDANAL	1010.
SNIAS	SEAL	LEAKING	04/12/2000	
AS350B2	BABDRR	M/RTRANSMISSION	2000071200293	72
(CAN) MAIN ROTOR TRANSMISSION INPUT SEAL LEAKING AT			IANGED, BUT LEAKIN	GAGAIN
AT101.3 HOURS. INPUT SEAL WAS FOUND TO BE .003 THOUS			02/05/2000	
SNIAS TMECA TMECA AS350BA ARRIEL1B	LINE 0301007710	CRACKED BELOW FLARE	03/05/2000 2000071200295	
(CAN) ENGINE FAILED TO START, MAINTENANCE FOUND SPR				ECTOR.
THELINE WAS REMOVED AND FOUND CRACKED AT BASE OF				
SNIAS LYC	SEATBELT	UNLATCHED	03/30/2000	10000
AS350D LTS101600A2 P131	5000B2	SEATBELT LATCH	2000072200164	ICEDTED
(CAN) IT WAS NOTICED THAT 2 OF THE 4 SEAT BELT LATCHE ALL THE WAY INTO THE LATCH, IT SOUNDS AND LOOKS LIKE				
OUTOF THE LATCH WITH NO RESTRICTION. IT TAKES 4 TO 5 A				
BEEN IDENTIFIED AND REPLACEMENT PARTS ARE ON				

SOCATA HOSE RESTRICTED 10/06/1999
TB21 F1K21700 COPILOT BRAKE 2000071900402
FOUND COPILOT BRAKE FLEX HOSES RESTRICTED DUE TO INTERNAL SWELLING OF THE RUBBER. UNKNOWN IF IMPROPER FLUID EVER USED. BRAKE WOULD LOCK UP WHEN RIGHT BRAKE APPLIED. NEW HOSES INSTALLED, SYSTEM LOCKED IN THE VERTICAL POSITION. POST-INCIDENT INSPECTION OF THE ENGINE REVEALED THE CRANKSHAFT HAD FAILED. (X)

OMB No. 2120-0003

DEDARTMENT OF		1		1	I III		
FEDERAL AVIATI	TRANSPORTATION ON ADMINISTRATION	OPER. Control No	<u>, </u>	Comments (Describe the malfunction or defect and the circumstances under which it occurred. State probable cause and recommendations to prevent recurrence.)	벌	TOR	
MAI FUNCTION O	OR DEFECT REPORT	ATA Code			DISTRICT	OPERATOR DE SIGNATOR	
	TO DETECT REPORT	A/C Reg. No.	N-				
Enter pertinent data 2.	MANUFACTURER	MODEL/SERIES	SERIAL NUMBER		OTHER		
AIRCRAFT						1	
3.					COMMUTER		
POWERPLANT						1	
4. PROPELLER					FAA		
	f component) CAUSING T	POLIBLE		-	ri.		
Part Name	MFG. Model or Part No		Part/Defect Location.	1	MFG.		
				1	AIRTAXI		
					AIR		_
	PONENT (Assembly that in		O a si a l Niversha a s	-	МЕСН.		
Comp/Appl Name	Manufacturer	Model or Part No.	. Serial Number	1	M	_	يض
				Optional Information:	OPER.	>-	TELEPHONE NUMBER:
Part TT	Part TSO P	art Condition	7. Date Sub.	Check a box below, if this report is related to an aircraft		SUBMITTED BY:	ONE
				Accident; Date Incident; Date	REP. STA.	JBMIT	EPH
A A Form 2010 1	(10-92) SUPERSEDES PR	EV410110 EB:=:0::0			æ	S	<u> </u>

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